

## Lesson 3

# Wind Energy Activity Sheet

### True or False? The Wind Energy Edition

Put a tick in the box to indicate whether the following statements are True or False.

Statement	True	False
Wind turbines take more energy to build than they generate over their lifetime		
Wind turbines produce clean electricity		
Wind farms require a lot of land to operate as wind turbines take up a lot of space		
Wind turbines are expensive to set up and run		
The amount of carbon dioxide generated in the construction of wind turbines ruins the positive impact they have		
Ireland is an excellent country for wind energy production as our wind speeds are generally higher than mainland Europe		

Think of reasons to justify each answer.

Compare and discuss answers with another student.

## The Climate Connection – Match the causes with the effects

Read each of the causes and match them with an effect. Write the number for each effect under the corresponding letter for each cause in the table below.

Causes		Effects	
A	Burning coal and gas to generate energy	1	Less CO2 absorbed by trees
B	Deforestation	2	More extreme weather such as hurricanes
C	Producing lots of waste	3	More extreme weather events
D	Rising temperatures	4	More pressure on the power grid
E	More windfarms	5	Increased greenhouse gas emissions
F	Melting glaciers and ice sheets	6	More methane produced from landfill
G	Leaving lights on unnecessarily	7	Less reliance on fossil fuels
H	Rising sea temperatures	8	Rising sea levels

Causes	A	B	C	D	E	F	G	H
Effects								

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### Extension Activities

#### **Activity One: Linked to your energy usage**

Create a poster aimed at students about how they can reduce their impact on energy use. Give some tips on how they can use energy more sustainably.

#### **Activity Two: Linked to the impact of using renewable energy**

Write a letter to the principal of your school outlining why you think the school should consider installing solar panels. In the letter, outline the benefits that renewable energies can have for the school, the local community and Ireland.